Clinical Decision Support (CDS) Content and Health Level 7 (HL7)-Compliant Knowledge Artifacts (KNARTs)

Mental Health: Iraq & Afghanistan Post-Deployment Screen Clinical Content White Paper

Department of Veterans Affairs (VA)



Knowledge Based Systems (KBS)
Office of Informatics and Information Governance (OIIG)
Clinical Decision Support (CDS)

Clinical Decision Support (CDS) Content and Health Level 7 (HL7)-Compliant Knowledge Artifacts (KNARTs): Mental Health: Iraq & Afghanistan Post-Deployment Screen Clinical Content White Paper

by Department of Veterans Affairs (VA), , , , and

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Table 1. Relevant KNART Information - Mental Health: Post-Deployment Screen KNARTs

Mental Health KNART	Associated CLIN
Iraq & Afghanistan Post-Deployment Screen Reminder – Event Condition Action (ECA) Rule	CLIN0003AA
Iraq & Afghanistan Post-Deployment Screen - Rule to Create Appropriate Order Set – ECA Rule	CLIN0007AA
Iraq & Afghanistan Post-Deployment Screen – Documentation Template	CLIN0005AB
Iraq & Afghanistan Post-Deployment Screen – Order Set	CLIN0008AA

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VA Subject Matter Expert (SME) Panel

Table 2. VA Subject Matter Expert (SME) Panel

Name	Title	Project Role
Rani Hoff, PhD, MPH	Director, Northeast Program Evaluation Center Office of Mental Health and Suicide Prevention (10NC5) VA Central Office (VACO)	SME, Primary
	Professor of Psychiatry, Yale University School of Medicine	
Katy Lysell, MD	National Mental Health Director for Informatics	SME, Secondary
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Ed Post, MD	CIO, VA Ann Arbor Healthcare System	SME
Andrew Pomerantz	National Mental Health Director, Integrated Care	SME
John McCarthy	Director, Serious Mental Illness Treatment Resource and Evaluation Center (SMITREC) & National PC-MHI Evaluation	SME

Introduction

The VA is committed to improving the ability of clinicians to provide care for patients while increasing quality, safety, and efficiency. Recognizing the importance of standardizing clinical knowledge in support of this goal, VA is implementing the Health Level 7 (HL7) Knowledge Artifact Specification for a wide range of VA clinical use cases. Knowledge Artifacts, referred to as (KNARTs), enable the structuring and encoding of clinical knowledge so the knowledge can be integrated with electronic health records to enable clinical decision support.

The purpose of this Clinical Content White Paper (CCWP) is to capture the clinical context and intent of KNART use cases in sufficient detail to provide the KNART authoring team with the clinical source material to construct the corresponding knowledge artifacts using the HL7 Knowledge Artifact Specification. This paper has been developed using material from a variety of sources: VA artifacts, clinical practice guidelines, evidence in the body of medical literature, and clinical expertise. After reviewing these sources, the material has been synthesized and harmonized under the guidance of VA subject matter experts to reflect clinical intent for this use case.

Unless otherwise noted, items within this white paper (e.g., documentation template fields, orderable items, etc.) are chosen to reflect the clinical intent at the time of creation. To provide an exhaustive list of all possible items and their variations is beyond the scope of this work.

Conventions Used

Conventions used within the knowledge artifact descriptions include:

<obtain>: Indicates a prompt to obtain the information listed

- If possible, the requested information should be obtained from the underlying system(s). Otherwise, prompting the user for information may be required
- The technical and clinical notes associated with a section should be consulted for specific constraints on the information (e.g., time-frame, patient interview, etc.)
- Default Values: Unless otherwise noted, <obtain> indicates to obtain the most recent observation. It is recognized that this default time-frame value may be altered by future implementations
- [...]: Square brackets enclose explanatory text that indicates some action on the part of the clinical user, or general guidance to the clinical or technical teams. Examples include, but are not limited to:

[Begin ...], [End ...]: Indicates the start and end of specific areas to clearly delineate them for technical purposes.

[Activate ...]: Initiates another knowledge artifact or knowledge artifact section.

[Section Prompt: ...]: If this section is applicable, then the following prompt should be displayed to the user.

[Section Selection Behavior: ...]: Indicates technical constraints or considerations for the selection of items within the section.

[Attach: ...]: Indicates that the specified item should be attached to the documentation template if available.

[Link: ...]: Indicates that rather than attaching an item, a link should be included in the documentation template.

[Clinical Comment: ...]: Indicates clinical rationale or guidance.

[Technical Note: ...]: Indicates technical considerations or notes.

[If ...]: Indicates the beginning of a conditional section.

[Else, ...]: Indicates the beginning of the alternative branch of a conditional section.

[End if ...]: Indicates the end of a conditional section.

□: Indicates items that should be selected based upon the section selection behavior.

Chapter 1. Mental Health: Iraq & Afghanistan Post-Deployment Screen

Clinical Context

[Begin Clinical Context.]

This section is intended to facilitate identification of patients requiring war on terror Veteran post-deployment screening; support documentation of screening-related findings and decisions; and support initiation of appropriate clinical orders.

Table 1.1. Clinical Context Domain

Target User	Mental health providers, primary care providers (PCPs)
Patient	Combat Veterans of the war on terror
Priority	Routine
Specialty	Primary Care / Mental Health
Location	Outpatient

[End Clinical Context.]

Knowledge Artifacts

[Begin Knowledge Artifacts.]

This section describes the CDS knowledge artifacts that are intended for clinical providers caring for combat Veterans of the war on terror who present to a Primary Care Clinic or Mental Health Clinic.

Four knowledge artifacts define this clinical use case. These artifacts include 2 ECA Rules, a Documentation Template, and an Order Set, which the following sections describe in detail.

- ECA Rules: Iraq & Afghanistan Post-Deployment Screen Reminder and Iraq & Afghanistan Post-Deployment
 Rule to Create Appropriate Order Set KNARTs
 - Rule logic for post-deployment screening reminder
 - Actions may include activating the documentation template or order set
- Documentation Template: Post-Deployment Screen KNART
 - Documents post-deployment screening associated findings and decisions
 - Includes logic for appropriate display of documentation sections
- · Order Set: Post-Deployment Screen KNART
 - · Orderable items associated with post-deployment screening
 - Includes logic for appropriate display of the order set

[End Knowledge Artifacts.]

Chapter 2. Event Condition Action (ECA) Rule: Iraq & Afghanistan Post-Deployment Screen Reminder

[Begin Event Condition Action (ECA) Rule: Iraq & Afghanistan Post-Deployment Screen Reminder.]

Knowledge Narrative

[Begin Knowledge Narrative.]

[See Clinical Context in Chapter 1.]

Upon returning from deployment, many combat Veterans of the war on terror successfully reintegrate into society; however, some have greater difficulty doing so. Problems these Veterans face include complex mental and physical problems, as well as financial challenges. Although programs exist for Veterans facing sequelae of deployment, Veterans with ongoing issues must be identified before they can benefit from such programs. Post-deployment Veterans should be screened for mental health–related problems such as posttraumatic stress disorder (PTSD), military sexual trauma, depression, suicidality, and alcohol abuse, as well as social welfare issues such as risk for homelessness and physical problems such as persistent infections, embedded fragments or shrapnel, and traumatic brain injury.

[End Knowledge Narrative.]

Iraq & Afghanistan Post-Deployment Screen Reminder

[Begin Iraq & Afghanistan Post-Deployment Screen Reminder.]

Events

[Begin Events.]

- 1. Any access of the patient record.
- 2. Upon first visit to a Primary Care or Mental Health provider in the VA system.

[End Events.]

Conditions

[Begin Conditions.]

- 1. Status as a Veteran who served in Iraq or Afghanistan after September 11, 2001 (post-deployment after return from combat service).
- 2. Absence of record of completed post-deployment screening (all questions answered in the survey).

[End Conditions.]

Actions

[Begin Actions.]

1. Create a communication request to the provider that patient is a candidate for post-deployment screening

Event Condition Action (ECA) Rule: Iraq & Afghanistan Post-Deployment Screen Reminder

Deployment Screen Reminder 2. Open the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template KNART.		
[End Actions.]		
[End Iraq & Afghanistan Post-Deployment Screen Reminder.]		
[End Event Condition Action (ECA) Rule: Iraq & Afghanistan Post-Deployment Screen Reminder.]		

Chapter 3. Event Condition Action (ECA) Rule: Iraq & Afghanistan Post-Deployment Screen – Rule to Create Appropriate Order Set

[Begin Event Condition Action (ECA) Rule: Iraq & Afghanistan Post-Deployment Screen – Rule to Create Appropriate Order Set.]

Knowledge Narrative

[Begin Knowledge Narrative.]

[See Clinical Context in Chapter 1.]

[End Knowledge Narrative.]

Iraq & Afghanistan Post-Deployment Screen – Rule to Create Appropriate Order Set

[Begin Iraq & Afghanistan Post-Deployment Screen – Rule to Create Appropriate Order Set.]

Events

[Begin Events.]

Submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template KNART. (This event applies to all branches.)

[End Events.]

Conditions

[Begin Conditions.]

Any positive screen or finding recorded in the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template KNART that indicates a need for initiation of specialty evaluation, care management services, or social work services as described in the branches below.

[End Conditions.]

Actions

[Begin Actions.]

- 1. Linking to clinical practice guidelines.
- 2. Linking to other KNARTs.
- 3. Creation of the appropriate orders in the "Mental Health -Iraq & Afghan Post-Deployment Screen" order set KNART as described in the branches below.

[End Actions.]

Unexplained Fevers

Events

[Begin Events.]

• Submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template KNART. (This event applies to all branches.)

[End Events.]

Conditions

[Begin Conditions.]

• Response of "Yes" to "Unexplained fevers since serving in the area of conflict?"

[End Conditions.]

Actions

[Begin Actions.]

- 1. Provide link to "General Clinical Note" documentation template KNART.
- 2. Provide link to "Generic E-Consult" documentation template-consult request KNART.
- 3. Display order for infectious diseases consult for unexplained fevers in the "Consults and Referrals" section of the "Mental Health Iraq & Afghanistan Post-Deployment Screen" order set KNART.
- 4. Display order for patient education for unexplained fevers in Veterans who served in Iraq or Afghanistan after September 11, 2001, in the "Patient and Caregiver Education" section of the "Mental Health Iraq & Afghanistan Post-Deployment Screen" order set KNART.

[End Actions.]

Chronic Diarrhea or Other Gastrointestinal Complaints

Events

[Begin Events.]

• Submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template KNART. (This event applies to all branches.)

[End Events.]

Conditions

[Begin Conditions.]

• Response of "Yes" to "Chronic diarrhea or other gastrointestinal complaints since serving in the area of conflict?"

[End Conditions.]

Actions

[Begin Actions.]

- 1. Provide link to "General Clinical Note" documentation template KNART.
- 2. Provide link to "Generic E-Consult" documentation template-consult request KNART.

Event Condition Action (ECA) Rule: Iraq & Afghanistan Post-Deployment Screen – Rule to

- 3. Display order for ova and parasites in the Haato Appropriates Ordetion of the "Mental Health Iraq & Afghanistan Post-Deployment Screen" order set KNART.
- 4. Display order for gastroenterology consult in the "Consults and Referrals" section of the "Mental Health Iraq & Afghanistan Post-Deployment Screen" order set KNART.
- 5. Display order for patient education for chronic diarrhea and other gastrointestinal complaints in Veterans who served in Iraq or Afghanistan after September 11, 2001, in the "Patient and Caregiver Education" section of the "Mental Health Iraq & Afghanistan Post-Deployment Screen" order set KNART.

[End Actions.]

Persistent Papular or Nodular Rash

Events

[Begin Events.]

• Submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template KNART. (This event applies to all branches.)

[End Events.]

Conditions

[Begin Conditions.]

Response of "Yes" to "Persistent papular or nodular rash since serving in the area of conflict?"

[End Conditions.]

Actions

[Begin Actions.]

- 1. Provide link to "General Clinical Note" documentation template KNART.
- 2. Provide link to "Generic E-Consult" documentation template-consult request KNART.
- 3. Display order for infectious diseases consult for persistent rash in the "Consults and Referrals" section of the "Mental Health Iraq & Afghanistan Post-Deployment Screen" order set KNART.
- 4. Display order for patient education for persistent rash in Veterans who served in Iraq or Afghanistan after September 11, 2001, in the "Patient and Caregiver Education" section of the "Mental Health Iraq & Afghanistan Post-Deployment Screen" order set KNART.

[End Actions.]

Possible Embedded Fragment or Shrapnel

Events

[Begin Events.]

• Submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template KNART. (This event applies to all branches.)

[End Events.]

Conditions

Event Condition Action (ECA) Rule: Iraq & Afghanistan Post-Deployment Screen – Rule to Create Appropriate Order Set

[Begin Conditions.]

Response of "Yes" to "Suspected or known embedded fragments or shrapnel as a result of serving in the area
of conflict?"

[End Conditions.]

Actions

[Begin Actions.]

Provide link to an embedded fragments documentation template when one becomes available. In the interim:

- 1. Provide link to "General Clinical Note" documentation template KNART.
- 2. Provide link to "Generic E-Consult" documentation template-consult request.
- 3. Display order for patient education for embedded fragments or shrapnel in Veterans who served in Iraq or Afghanistan after September 11, 2001, in the "Patient and Caregiver Education" section of the "Mental Health Iraq & Afghanistan Post-Deployment Screen" order set KNART.

[End Actions.]

Possible Traumatic Brain Injury

Events

[Begin Events.]

• Submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template KNART. (This event applies to all branches.)

[End Events.]

Conditions

[Begin Conditions.]

• Response of "Yes" to "Suspected or known head injury resulting in alteration or loss of consciousness during deployment?"

[End Conditions.]

Actions

[Begin Actions.]

1. Provide link to "Neurology - TBI Screening" ECA Rule KNART.

[End Actions.]

[End Iraq & Afghanistan Post-Deployment Screen – Rule to Create Appropriate Order Set.]

[End Event Condition Action (ECA) Rule: Iraq & Afghanistan Post-Deployment Screen – Rule to Create Appropriate Order Set.]

Chapter 4. Documentation Template: Iraq & Afghanistan Post-Deployment Screen

[Begin Documentation Template: Iraq & Afghanistan Post-Deployment Screen.]

Knowledge Narrative

[Begin Knowledge Narrative.]

[See Clinical Context in Chapter 1.]

[End Knowledge Narrative.]

Iraq & Afghanistan Post-Deployment Screen

[Begin Iraq & Afghanistan Post-Deployment Screen.]

[Technical Note: This documentation template should be available to primary care and mental health providers caring for outpatients identified as candidates for the war on terror post-deployment screening.]

[Technical Note: Please auto populate the answers to the post-deployment status questions.]

[Section Prompt: Did the Veteran serve in Iraq or Afghanistan after September 11, 2001 (post-deployment after return from combat service)

[Section Behavior: Select one. Optional.]
\Box Yes
<obtain> Dates</obtain>
□No
[Link: Provide link to "Mental Health - PTSD Screening and Assessment" documentation template KNART.]
[Link: Provide link to "Mental Health – Military Sexual Trauma" documentation template KNART.]
$[Link: Provide \ link \ to \ ``Mental \ Health-Consult \ for \ Depression" \ documentation \ template-consult \ request \ KNART.]$
[Link: Provide link to "Mental Health – Suicide Risk Assessment" documentation template KNART.]
[Link: Provide link to future KNART for Screening for Unhealthy Alcohol Use.]

Infectious Disease Screen

[Section Prompt: Unexplained fevers since serving in the area of conflict?
[Section Behavior: Select one. Optional.]
□ Yes
<obtain> Description</obtain>

[Link: Provide link to "Mental Health – Homelessness" documentation template KNART.]

Documentation Template: Iraq & Afghanistan Post-Deployment Screen

Deployment Screen	
□No	
[Section Prompt: Chronic diarrhea or other gastrointestinal complaints since serving in the area of conflict?]	
[Section Behavior: Select one. Optional.]	
□ Yes	
<obtain> Description</obtain>	
□No	
[Section Prompt: Persistent papular or nodular rash since serving in the area of conflict?]	
[Section Behavior: Select one. Optional.]	
□ Yes	
<obtain> Description</obtain>	
□No	
Embedded Fragment Screen	
[Section Prompt: Suspected or known embedded fragments or shrapnel as a result of serving in the area of confli	ct?]
[Section Behavior: Select one. Optional.]	
□ Yes	
<obtain> Description</obtain>	
□No	
TBI Screen	
[Technical Note: Note the existence of the "Neurology – TBI Screening" ECA Rule.]	
[Section Prompt: Suspected or known head injury resulting in alteration or loss of consciousness durdeployment?]	ing
[Section Behavior: Select one. Optional.]	
□ Yes	
<obtain> Description</obtain>	
□No	
<pre><obtain> Additional information</obtain></pre>	
[Technical Note: The screening reminder should not be turned off until all questions have been answered.]	
[End Iraq & Afghanistan Post-Deployment Screen.]	
[End Documentation Template: Iraq & Afghanistan Post-Deployment Screen.]	

Chapter 5. Order Set: Iraq & Afghanistan Post-Deployment Screen

[Begin Order Set: Iraq & Afghanistan Post-Deployment Screen.]

Knowledge Narrative

[Begin Knowledge Narrative.]

[See Clinical Context in Chapter 1.]

[End Knowledge Narrative.]

Laboratory Tests

[Begin Laboratory Tests.]

[Technical Note: This section of the order set should be provided to primary care providers and mental health providers following submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template. Specific orders should be displayed based on the actions described in the related branches of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen - Rule to Create Appropriate Order Set" ECA Rule.]

[Section Selection Behavior: Select one. Optional.]

☐ Ova and parasites stool (routine)

[End Laboratory Tests.]

Consults and Referrals

[Begin Consults and Referrals.]

[Technical Note: This section of the order set should be provided to primary care providers and mental health providers following submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template. Specific orders should be displayed based on the actions described in the related branches of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen - Rule to Create Appropriate Order Set" ECA Rule.]

[Section Selection Behavior: Select any or none. Optional.]

• • •
☐ Referral care management services evaluate need for care management services (now)
☐ Referral social services evaluate need for social services (now)
\Box Consult infectious diseases evaluate chronic unexplained fevers in Veteran who served in Iraq or Afghanistan after September 11, 2001 (now)
☐ Consult gastroenterology evaluate chronic diarrhea/other gastrointestinal complaints in Veteran who served in Iraq or Afghanistan after September 11, 2001 (now)
\square Consult infectious diseases evaluate persistent rash in Veteran who served in Iraq or Afghanistan after September 11, 2001 (now)

[End Consults and Referrals.]

Patient and Caregiver Education

[Begin Patient and Caregiver Education.]

[Technical Note: This section of the order set should be provided to primary care providers and mental health providers following submission of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen" documentation template KNART. Specific orders should be displayed based on the actions described in the related branches of the "Mental Health – Iraq & Afghanistan Post-Deployment Screen - Rule to Create Appropriate Order Set" ECA Rule.]

[Section Selection Behavior: Select any or none. Optional.]	
☐ Unexplained fevers in Veterans who served in Iraq or Afghanistan after September 11, 2001, patient education	
☐ Chronic diarrhea and other gastrointestinal complaints in Veterans who served in Iraq or Afghanistan after September 11, 2001, patient education	
☐ Persistent rash in Veterans who served in Iraq or Afghanistan after September 11, 2001, patient education	
☐ Embedded fragments or shrapnel in Veterans who served in Iraq or Afghanistan after September 11, 2001, patient education	
[End Patient and Caregiver Education.]	
[End Order Set: Iraq & Afghanistan Post-Deployment Screen.]	

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Appendix A. Existing Sample VA Artifacts

All of the following artifacts/images are referenced from the Portland VA Medical Center (VAMC).

Patients who served in combat in either Operation Iraqi Freedom (Iraq, Kuwait, Saudi Arabia, Turkey) or in Operation Enduring Freedom (Afghanistan, Georgia, Kyrgyzstan, Pakistan, Tajikistan, Uzbekistan, The Philippines) should be screened for illnesses related to their service. Screening for PTSD, depression, problem alcohol use, infectious diseases, and embedded fragments should be part of the initial evaluation of these Veterans.

COHORT: veterans with separation date after 9/11/01. This finding is part of the reminder term: VA-IRAQ/AFGHAN PERIOD OF SERVICE and is determined by a computed finding.

An additional reminder term VA-ACTIVE DUTY is also available to cause patients to be part of the cohort. If a site wishes to screen active duty patients then the computed finding for VA-PATIENT TYPE should be added to the term with a condition of I V="ACTIVE DUTY".

Patients who have OEF/OIF service as recorded in the patient registration data are automatically part of the cohort and patients who did not serve in OEF/OIF are not included in the denominator.

RESOLUTION: entry of a health factor for NO IRAQ/AFGHAN SERVICE which is found in the reminder term IRAQ/AFGHAN SERVICE NO will resolve the reminder only if the patient does not have an entry of OEF/OIF service in the patient file. If the Veteran is known to have OEF/OIF service, based on the registration data then the location of service is not required.

If the veteran served in Iraq or Afghanistan as recorded in the patient registration data (File 1), then the patient must be screened or the registration data must be updated.

For all applicable patients who are not cognitively impaired: all the other items are required to resolve the reminder and must be completed after the date of the most recent service separation:

- a) screen for PTSD,
- b) screen for depression,
- c) screen for alcohol use,
- d) all 3 screening questions related to infectious diseases. (The 4th question for embedded fragments is new as of the summer of 2008 and because of this, cannot be required at this time by the reminder logic).

The clinical maintenance will display information on which portions of the screen are not yet completed.

All of the individual elements of the screening tool are exported with attached health factors and reminder terms.

PTSD, depression and alcohol screening must be recorded in the MH package and the dialog for this reminder requires use of the MH instruments for

these screens. Screens done prior to 10/1/08 using health factors will still resolve the reminder since those health factors are in the reminder terms that are part of the logic in this reminder.

The HFs for all of these screens should be entered in the site parameters as ones that cannot be added outside of a reminder dialog. Use the parameter ORWPCE EXCLUDE HEALTH FACTORS to exclude these from the electronic encounter forms. Entry of these health factors should ONLY occur during reminder dialog use.

Update October 2008 - patch PXRM*2*11 1. Health factors for PTSD screening, depression screening and alcohol screening are not allowed after 10/1/08 per the Office of Mental Health. 2. A HF for done elsewhere is included. 3. Combat vets need to be screened 4. The computed finding was removed from the reminder term for VA-ACTIVE DUTY since only a few sites screen active duty patients and patch 11 required an overwrite of this term. 5. Add embedded fragments question and remove other symptoms.

Update January 2009 - patch PXRM*2*12 1. Change combat vet screening requirement to OEF/OIF service based on recent data that these fields are more accurate. 2. Fix problem that active duty patients who did not serve in OEF/OIF have reminder continue to show as due. 3. Refusals of screening must be done after the most recent service separation.

Technical Description:

Baseline Frequency:

Do In Advance Time Frame: Wait until actually DUE

Sex Specific:

Ignore on N/A:

Frequency for Age Range: 99Y - Once for all ages

Match Text:
No Match Text:

Findings:

---- Begin: VA-IRAQ/AFGHAN SERVICE NO (FI(1)=RT(134)) ------

Finding Type: REMINDER TERM

Use in Resolution Logic: OR

Mapped Findings: HF.NO IRAQ/AFGHAN SERVICE

Health Factor Category: IRAQ/AFGHANISTAN

---- End: VA-IRAQ/AFGHAN SERVICE NO ------

---- Begin: VA-IRAQ/AFGHAN PERIOD OF SERVICE (FI(2)=RT(135)) ------

Finding Type: REMINDER TERM

Use in Patient Cohort Logic: AND

Beginning Date/Time: SEP 11, 2001

Not Found Text: Last Service Separation Date prior to 9/11/01

or missing.

Mapped Findings: CF.VA-SERVICE SEPARATION DATES

Beginning Date/Time: SEP 11, 2001 ---- End: VA-IRAQ/AFGHAN PERIOD OF SERVICE ---------- Begin: VA-IRAQ/AFGHAN SERVICE (FI(3)=RT(568012)) ------Finding Type: REMINDER TERM Mapped Findings: HF.IRAQ/AFGHAN SERVICE Health Factor Category: IRAQ/AFGHANISTAN Beginning Date/Time: 9/11/01 Mapped Findings: CF.VA-OEF SERVICE Mapped Findings: CF.VA-OIF SERVICE Mapped Findings: CF.VA-UNKNOWN OEF/OIF SERVICE ---- End: VA-IRAO/AFGHAN SERVICE --------- Begin: VA-DEPRESSION SCREEN OEF/OIF (FI(4)=RT(948)) ------Finding Type: REMINDER TERM Mapped Findings: MH.PHQ-2 MH Scale: 492 - Depression Mapped Findings: MH.PHQ9 MH Scale: 419 - PHQ9 Mapped Findings: MH.DOM80 Ending Date/Time: 9/30/07 MH Scale: 515 - Total Mapped Findings: MH.DOMG Ending Date/Time: 9/30/07 MH Scale: 365 - Total Mapped Findings: MH.BDI Ending Date/Time: 9/30/07 MH Scale: 331 - DEPRESSION SCORE Mapped Findings: MH.BDI2 Ending Date/Time: 9/30/07 MH Scale: 332 - Total Mapped Findings: HF.DEP SCREEN 2 QUESTION POS Health Factor Category: MENTAL HEALTH Ending Date/Time: 10/1/08 Mapped Findings: HF.DEP SCREEN 2 QUESTION NEG Health Factor Category: MENTAL HEALTH Ending Date/Time: 10/1/08 Mapped Findings: MH.ZUNG Ending Date/Time: 9/30/07

Mapped Findings: MH.CRS Ending Date/Time: 9/30/07

MH Scale: 453 - DEPRESSION

```
MH Scale: 347 - CRS TOTAL
```

Mapped Findings: HF.PHQ-2 NEGATIVE Health Factor Category: MENTAL HEALTH

Ending Date/Time: 10/1/08

Mapped Findings: HF.PHQ-2 POSITIVE Health Factor Category: MENTAL HEALTH

Ending Date/Time: 10/1/08

Mapped Findings: HF.PC DEPRESSION SCREEN NEGATIVE

Health Factor Category: MENTAL HEALTH

Mapped Findings: HF.PC DEPRESSION SCREEN POSITIVE

Health Factor Category: MENTAL HEALTH

Mapped Findings: HF.DEPRESSION ASSESS COMPLETE

Health Factor Category: MENTAL HEALTH

Mapped Findings: TX.VA-DEPRESSION DIAGNOSIS

---- End: VA-DEPRESSION SCREEN OEF/OIF ------

---- Begin: VA-COMBAT VET (FI(5)=RT(944)) ------

Finding Type: REMINDER TERM

Found Text: Combat Vet eligible or prior Combat Vet eligibility found.

Update the patient's demographic data as needed.

Mapped Findings: CF.VA-COMBAT VET ELIGIBILITY

Condition: I V="ELIGIBLE"

Condition Case Sensitive: NO

---- End: VA-COMBAT VET ------

---- Begin: VA-ALCOHOL USE SCREEN (FI(6)=RT(133)) ------

Finding Type: REMINDER TERM

Not Found Text: Screening for at risk alcohol use using the AUDIT-C screening tool should be performed

yearly for any patient who has consumed alcohol in the past year. No record of prior screening for alcohol use was found in this

patient's record.

//

Mapped Findings: MH.AUDC

MH Scale: 276 - Total

Mapped Findings: MH.CAGE Ending Date/Time: 10/1/05

Mapped Findings: HF.NON-DRINKER (NO ALCOHOL FOR >1

YR)

```
Health Factor Category: ALCOHOL USE
            Ending Date/Time: 10/1/08
             Mapped Findings: MH.AUDIT
            Ending Date/Time: 10/1/07
                       MH Scale: 278 - AUDIT
             Mapped Findings: HF.ETOH-ALCOHOL USE PAST 12 MOS
       Health Factor Category: CAGE QUEST
            Ending Date/Time: 3/1/09
---- End: VA-ALCOHOL USE SCREEN ------
---- Begin: VA-PTSD SCREEN (FI(7)=RT(568013)) ------
           Finding Type: REMINDER TERM
             Mapped Findings: HF.PTSD SCREEN NEGATIVE
       Health Factor Category: MENTAL HEALTH
            Ending Date/Time: 10/1/08
             Mapped Findings: HF.PTSD SCREEN POSITIVE
       Health Factor Category: MENTAL HEALTH
            Ending Date/Time: 10/1/08
             Mapped Findings: MH.PC PTSD
                       MH Scale: 203 - PC PTSD Total
             Mapped Findings: TX.VA-PTSD DIAGNOSIS
---- End: VA-PTSD SCREEN ------
--- Begin: VA-UNEXPLAINED FEVER (IRAQ/AFGHANISTAN) (FI(8)=RT(568015)) ---
           Finding Type: REMINDER TERM
          Not Found Text: Screen for unexplained fevers that might
                            represent occult malaria or infection with
                             leishmaniasis.
                             //
             Mapped Findings: HF. UNEXPLAINED FEVERS SCREEN
                             NEGATIVE
       Health Factor Category: IRAQ/AFGHANISTAN
             Mapped Findings: HF.UNEXPLAINED FEVERS SCREEN
                                POSITIVE
       Health Factor Category: IRAQ/AFGHANISTAN
---- End: VA-UNEXPLAINED FEVER (IRAQ/AFGHANISTAN) ------
---- Begin: VA-EMBEDDED FRAGMENTS (IRAQ/AFGHANISTAN) (FI(9)=RT(947)) -----
            Finding Type: REMINDER TERM
             Mapped Findings: HF.EMBEDDED FRAGMENTS PRESENT
       Health Factor Category: IRAQ/AFGHANISTAN
             Mapped Findings: HF.NO EMBEDDED FRAGMENTS
       Health Factor Category: IRAQ/AFGHANISTAN
```

```
--- End: VA-EMBEDDED FRAGMENTS (IRAQ/AFGHANISTAN) ------
---- Begin: VA-GI SYMPTOMS (IRAQ/AFGHANISTAN) (FI(10)=RT(568014)) ------
           Finding Type: REMINDER TERM
          Not Found Text: Screen for diarrhea or other GI complaints
                            that might suggest giardia, amoebiasis or
                            other GI infection.
                            //
             Mapped Findings: HF.GI SYMPTOMS SCREEN NEGATIVE
       Health Factor Category: IRAQ/AFGHANISTAN
             Mapped Findings: HF.GI SYMPTOMS SCREEN POSITIVE
       Health Factor Category: IRAQ/AFGHANISTAN
---- End: VA-GI SYMPTOMS (IRAQ/AFGHANISTAN) ------
---- Begin: VA-PERSISTENT RASH (IRAQ/AFGHANISTAN) (FI(11)=RT(568016)) ----
           Finding Type: REMINDER TERM
          Not Found Text: Screen for persistent rash that might
                             represent infection with leishmaniasis.
                             //
             Mapped Findings: HF.SKIN LESION SCREEN NEGATIVE
       Health Factor Category: IRAQ/AFGHANISTAN
             Mapped Findings: HF.SKIN LESION SCREEN POSITIVE
       Health Factor Category: IRAQ/AFGHANISTAN
---- End: VA-PERSISTENT RASH (IRAQ/AFGHANISTAN) ------
---- Begin: VA-PTSD AVOIDANCE ALL (FI(12)=RT(617)) ------
           Finding Type: REMINDER TERM
    Within Category Rank: 0
             Mapped Findings: HF.PTSD SCREEN - AVOIDANCE
       Health Factor Category: PTSD AVOIDANCE
             Ending Date/Time: 10/1/08
             Mapped Findings: HF.PTSD SCREEN - NO AVOIDANCE
       Health Factor Category: PTSD AVOIDANCE
             Ending Date/Time: 10/1/08
---- End: VA-PTSD AVOIDANCE ALL ------
---- Begin: VA-PTSD DETACHMENT ALL (FI(13)=RT(620)) ------
           Finding Type: REMINDER TERM
    Within Category Rank: 0
             Mapped Findings: HF.PTSD SCREEN - DETACHED
       Health Factor Category: PTSD DETACHMENT
             Ending Date/Time: 10/1/08
             Mapped Findings: HF.PTSD SCREEN - NO DETACHMENT
       Health Factor Category: PTSD DETACHMENT
```

Ending Date/Time: 10/1/08
End: VA-PTSD DETACHMENT ALL
Begin: VA-PTSD NIGHTMARES ALL (FI(14)=RT(618))
Mapped Findings: HF.PTSD SCREEN - NIGHTMARES Health Factor Category: PTSD NIGHTMARES Ending Date/Time: 10/1/08
Mapped Findings: HF.PTSD SCREEN - NO NIGHTMARES Health Factor Category: PTSD NIGHTMARES Ending Date/Time: 10/1/08
End: VA-PTSD NIGHTMARES ALL
Begin: VA-PTSD ON GUARD ALL (FI(15)=RT(619))
Mapped Findings: HF.PTSD SCREEN - ON GUARD Health Factor Category: PTSD ON GUARD Ending Date/Time: 10/1/08
Mapped Findings: HF.PTSD SCREEN - NO ON GUARD Health Factor Category: PTSD ON GUARD Ending Date/Time: 10/1/08
End: VA-PTSD ON GUARD ALL
Begin: VA-REFUSED PTSD SCREEN (FI(16)=RT(631)) Finding Type: REMINDER TERM Found Text: Refused PTSD Screen
Mapped Findings: HF.REFUSED PTSD SCREEN Health Factor Category: MENTAL HEALTH
End: VA-REFUSED PTSD SCREEN
Begin: VA-REFUSED ALCOHOL SCREENING (FI(17)=RT(568018))
Mapped Findings: HF.REFUSED ALCOHOL USE SCREENING Health Factor Category: ALCOHOL USE
End: VA-REFUSED ALCOHOL SCREENING
Begin: VA-REFUSED DEPRESSION SCREENING (FI(18)=RT(81))
Mapped Findings: HF.REFUSED DEPRESSION SCREENING Health Factor Category: MENTAL HEALTH
Mapped Findings: HF.PHQ-2 REFUSED

Mapped Findings: HF.PHQ-2 REFUSED

```
Health Factor Category: DEPRESSION SCREEN
         Within Category Rank: 0
 ---- End: VA-REFUSED DEPRESSION SCREENING ------
 ---- Begin: VA-ACTIVE DUTY (FI(19)=RT(568019)) ------
            Finding Type: REMINDER TERM
 Use in Patient Cohort Logic: OR
        RT Mapped Finding: No Reminder Finding Found
 ---- End: VA-ACTIVE DUTY -----
 ---- Begin: VA-REFUSED ID & OTHER SX SCREEN (FI(20)=RT(568020)) ------
            Finding Type: REMINDER TERM
      Beginning Date/Time: T-1Y
     Within Category Rank: 0
              Found Text: The patient declined to answer some or all of
                            the infectious disease and other symptom
                            questions. Please ask these screening
                            questions again if they remain unaddressed.
              Mapped Findings: HF.REFUSED ID & OTHER SX SCREEN
        Health Factor Category: IRAQ/AFGHANISTAN
 ---- End: VA-REFUSED ID & OTHER SX SCREEN ------
 ---- Begin: VA-COGNITIVE IMPAIRMENT (FI(21)=RT(806)) ------
            Finding Type: REMINDER TERM
      Beginning Date/Time: T-2Y
              Mapped Findings: HF.SEVERE CHRONIC COGNITIVE
                                IMPAIRMENT
        Health Factor Category: MENTAL HEALTH
 ---- End: VA-COGNITIVE IMPAIRMENT ------
 ---- Begin: VA-OEF/OIF SCREEN DONE ELSEWHERE (FI(22)=RT(945)) ------
            Finding Type: REMINDER TERM
              Mapped Findings: HF.OEF/OIF SCREEN COMPLETED OUTSIDE
        Health Factor Category: IRAQ/AFGHANISTAN
 ---- End: VA-OEF/OIF SCREEN DONE ELSEWHERE ------
 ---- Begin: VA-OTHER SYMPTOMS (IRAQ/AFGHANISTAN) (FI(23)=RT(568017)) -----
            Finding Type: REMINDER TERM
              Mapped Findings: HF.OTHER PHYSICAL SYMPTOMS SCREEN
                                NEGATIVE
        Health Factor Category: IRAQ/AFGHANISTAN
              Mapped Findings: HF.OTHER PHYSICAL SYMPTOMS SCREEN
                                POSITIVE
        Health Factor Category: IRAQ/AFGHANISTAN
 ---- End: VA-OTHER SYMPTOMS (IRAQ/AFGHANISTAN) -------
Function Findings:
```

```
---- Begin: FF(1)------
         Function String: MRD(1)>MRD(2)
    Expanded Function String:
  \verb|MRD(VA-IRAQ/AFGHAN| SERVICE NO) > \verb|MRD(VA-IRAQ/AFGHAN| PERIOD OF SERVICE)| \\
--- End: FF(1) ------
---- Begin: FF(2)------
         Function String:
MRD(7,12,13,14,15)>MRD(2)!(DIFF_DATE(7,2)<120)!(DIFF_DATE(12,2)<120)
 Expanded Function String:
  MRD(VA-PTSD SCREEN, VA-PTSD AVOIDANCE ALL, VA-PTSD DETACHMENT ALL,
  VA-PTSD NIGHTMARES ALL, VA-PTSD ON GUARD ALL) > MRD(
  VA-IRAQ/AFGHAN PERIOD OF SERVICE)!(DIFF_DATE(VA-PTSD SCREEN,
  VA-IRAQ/AFGHAN PERIOD OF SERVICE)<120)!(DIFF_DATE(VA-PTSD AVOIDANCE ALL,
  VA-IRAQ/AFGHAN PERIOD OF SERVICE)<120)
             Found Text: 1. PTSD Screening completed since service
                           discharge
          Not Found Text: 1. PTSD Screen NEEDED
--- End: FF(2) ------
---- Begin: FF(3)-------
         Function String: MRD(4)>MRD(2)!(DIFF_DATE(4,2)<120)</pre>
 Expanded Function String:
  MRD(VA-DEPRESSION SCREEN OEF/OIF)>MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!
     (DIFF_DATE(VA-DEPRESSION SCREEN OEF/OIF,
  VA-IRAO/AFGHAN PERIOD OF SERVICE)<120)
             Found Text: 2. Depression Screening completed since
                           service discharge
          Not Found Text: 2. Depression Screening NEEDED
---- End: FF(3) ------
--- Begin: FF(4)-----
         Function String: MRD(6)>MRD(2)!(DIFF_DATE(6,2)<120)</pre>
 Expanded Function String:
  MRD(VA-ALCOHOL USE SCREEN)>MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!(
     DIFF_DATE(VA-ALCOHOL USE SCREEN, VA-IRAQ/AFGHAN PERIOD OF SERVICE) < 120)
             Found Text: 3. Alcohol Screening completed since service
                           discharge
          Not Found Text: 3. Alcohol Screening NEEDED
---- End: FF(4) -------
--- Begin: FF(5)-----
         Function String:
MRD(10,20)>MRD(2)!'(FI(2)!FI(19))!(DIFF_DATE(10,2)<120)!(DIFF_DATE(20,2)<120)
 Expanded Function String:
  MRD(VA-GI SYMPTOMS (IRAQ/AFGHANISTAN), VA-REFUSED ID & OTHER SX SCREEN)>
  MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!'(FI(
  VA-IRAQ/AFGHAN PERIOD OF SERVICE)!FI(VA-ACTIVE DUTY))!(DIFF_DATE(
  VA-GI SYMPTOMS (IRAQ/AFGHANISTAN), VA-IRAQ/AFGHAN PERIOD OF SERVICE) < 120)
     !(DIFF_DATE(VA-REFUSED ID & OTHER SX SCREEN,
  VA-IRAQ/AFGHAN PERIOD OF SERVICE)<120)
             Found Text: 4A. Screen for GI symptoms done or not
                           required.
          Not Found Text: 4A. Screen for GI symptoms NEEDED
```

```
--- End: FF(5) ------
--- Begin: FF(6)-----
         Function String:
MRD(8,20)>MRD(2)!'(FI(2)!FI(19))!(DIFF_DATE(8,2)<120)!(DIFF_DATE(20,2)<120)
 Expanded Function String:
  MRD(VA-UNEXPLAINED FEVER (IRAQ/AFGHANISTAN),
  VA-REFUSED ID & OTHER SX SCREEN)>MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!'
  (FI(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!FI(VA-ACTIVE DUTY))!(DIFF_DATE(
  VA-UNEXPLAINED FEVER (IRAQ/AFGHANISTAN),
  VA-IRAQ/AFGHAN PERIOD OF SERVICE)<120)!(DIFF_DATE(
  VA-REFUSED ID & OTHER SX SCREEN, VA-IRAQ/AFGHAN PERIOD OF SERVICE) < 120)
             Found Text: 4B. Screen for Fevers done or not required.
          Not Found Text: 4B. Screen for Fevers NEEDED
--- End: FF(6) ------
--- Begin: FF(7)-----
         Function String:
MRD(11,20)>MRD(2)!'(FI(2)!FI(19))!(DIFF_DATE(11,2)<120)!(DIFF_DATE(20,2)<120)
 Expanded Function String:
  MRD(VA-PERSISTENT RASH (IRAQ/AFGHANISTAN),
  VA-REFUSED ID & OTHER SX SCREEN)>MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!'
     (FI(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!FI(VA-ACTIVE DUTY))!(DIFF_DATE(
  VA-PERSISTENT RASH (IRAQ/AFGHANISTAN), VA-IRAQ/AFGHAN PERIOD OF SERVICE) <
     120)!(DIFF_DATE(VA-REFUSED ID & OTHER SX SCREEN,
  VA-IRAO/AFGHAN PERIOD OF SERVICE)<120)
             Found Text: 4C. Screen for Skin Rash done or not required.
          Not Found Text: 4C. Screen for Skin Rash NEEDED
---- End: FF(7) ---------
---- Begin: FF(8)-------
         Function String: MRD(9,20)>MRD(2)!'(FI(2)!FI(19))
 Expanded Function String:
  MRD(VA-EMBEDDED FRAGMENTS (IRAQ/AFGHANISTAN),
  VA-REFUSED ID & OTHER SX SCREEN)>MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!'
  (FI(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!FI(VA-ACTIVE DUTY))
             Found Text: 4D. Screen for Embedded Fragments done or not
                           required.
          Not Found Text: 4D. Screen for Embedded Fragments NEEDED
---- End: FF(8) ------
--- Begin: FF(9)-----
         Function String: MRD(2)>MRD(1,8,10,11,22)
 Expanded Function String:
  MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)>MRD(VA-IRAQ/AFGHAN SERVICE NO,
  VA-UNEXPLAINED FEVER (IRAQ/AFGHANISTAN),
  VA-GI SYMPTOMS (IRAQ/AFGHANISTAN), VA-PERSISTENT RASH (IRAQ/AFGHANISTAN),
  VA-OEF/OIF SCREEN DONE ELSEWHERE)
             Found Text: The patient's most recent service separation
                           date is more recent than their last screening
                           - rescreening is needed after any new period
                           of service.
---- End: FF(9) -----
```

```
--- Begin: FF(10)------
         Function String: MRD(22)>MRD(2)
  Expanded Function String:
   MRD(VA-OEF/OIF SCREEN DONE ELSEWHERE)>MRD(
   VA-IRAQ/AFGHAN PERIOD OF SERVICE)
             Found Text: OEF/OIF Post-Deployment Screening was
                          completed at another site.
 ---- End: FF(10) -----
 ---- Begin: FF(16)-------
         Function String: MRD(16)>MRD(2)
  Expanded Function String:
  MRD(VA-REFUSED PTSD SCREEN)>MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)
 ---- End: FF(16) -------
 --- Begin: FF(17)------
         Function String: MRD(17)>MRD(2)
  Expanded Function String:
   MRD(VA-REFUSED ALCOHOL SCREENING)>MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)
 ---- End: FF(17) -------------
 --- Begin: FF(18)-----
         Function String: MRD(18)>MRD(2)
  Expanded Function String:
   MRD(VA-REFUSED DEPRESSION SCREENING)>MRD(
   VA-IRAQ/AFGHAN PERIOD OF SERVICE)
 --- End: FF(18) ------
 ---- Begin: FF(20)-------
         Function String: MRD(3)>MRD(1)
  Expanded Function String:
   MRD(VA-IRAQ/AFGHAN SERVICE)>MRD(VA-IRAQ/AFGHAN SERVICE NO)
 ---- End: FF(20) -------
General Patient Cohort Found Text:
Patients who served in combat in either Iraq (Operation Iraqi Freedom) or
in Afghanistan (Operation Enduring Freedom) should be screened for
illnesses related to their service. Screening for PTSD, depression,
problem alcohol use, infectious diseases, and chronic symptoms should be
part of the initial evaluation of these Veterans.
Customized PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
((FI(2)!FI(19))&'FF(1))!(FI(3)&FF(20))&'FI(21)
Expanded Patient Cohort Logic:
 ((FI(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!FI(VA-ACTIVE DUTY))&'FF(1))!
 (FI(VA-IRAQ/AFGHAN SERVICE)&FF(20))&'FI(VA-COGNITIVE IMPAIRMENT)
Customized RESOLUTION LOGIC defines findings that resolve the Reminder:
 ((FI(16)\&FF(16))!(FF(2)\&(FI(16)!FI(7)!(FI(12)\&FI(13)\&FI(14)\&FI(15)))))\&
 (((FF(3)&FI(4))!(FI(18)&FF(18))))&((FF(4)&FI(6))!(FI(17)&FF(17)))&
 ((FI(20)&FF(5))!(FF(5)&FI(10)&FF(6)&FI(8)&FF(7)&FI(11)))!(FI(22)&FF(10))
```

```
Expanded Resolution Logic:
 ((FI(VA-REFUSED PTSD SCREEN)&FF(16))!(FF(2)&(FI(VA-REFUSED PTSD SCREEN)!
 FI(VA-PTSD SCREEN)!(FI(VA-PTSD AVOIDANCE ALL)&
 FI(VA-PTSD DETACHMENT ALL)&FI(VA-PTSD NIGHTMARES ALL)&
 FI(VA-PTSD ON GUARD ALL)))))&(((FF(3)&FI(VA-DEPRESSION SCREEN OEF/OIF))!
 (FI(VA-REFUSED DEPRESSION SCREENING)&FF(18))))&((FF(4)&
 FI(VA-ALCOHOL USE SCREEN))!(FI(VA-REFUSED ALCOHOL SCREENING)&FF(17)))&
 ((FI(VA-REFUSED ID & OTHER SX SCREEN)&FF(5))!(FF(5)&
 FI(VA-GI SYMPTOMS (IRAQ/AFGHANISTAN))&FF(6)&
 FI(VA-UNEXPLAINED FEVER (IRAQ/AFGHANISTAN))&FF(7)&
 FI(VA-PERSISTENT RASH (IRAQ/AFGHANISTAN))))!
 (FI(VA-OEF/OIF SCREEN DONE ELSEWHERE)&FF(10))
Web Sites:
 Web Site URL:
                http://www.oqp.med.va.gov/cpg/cpg.htm
 Web Site Title: VA/DOD Guidelines - Office of Quality and Performance
 Description:
 Web Site URL:
                http://www.oqp.med.va.gov/cpg/MDD/MDD_Base.htm
 Web Site Title: VA/DOD Depression Guideline
 Description:
                http://www.oqp.med.va.gov/cpg/cpgn/mus/mus_base.htm
 Web Site URL:
 Web Site Title: VA/DOD Medically Unexplained Symptoms: Pain and Fatigue
 Description:
                http://www.oqp.med.va.gov/cpg/PDH/PDH_base.htm
 Web Site URL:
 Web Site Title: Post Deployment Health Evaluation and Management
 Description:
 Web Site URL:
                http://www.oqp.med.va.gov/cpg/SUD/SUD_Base.htm
 Web Site Title: VA/DOD Substance Abuse Guideline
 Description:
 Web Site URL:
                http://vaww.va.gov/environagents/
 Web Site Title: VA Environmental Agents Service
 Description:
```

Figure A.1. Reminder Dialog Template: Operation Enduring Freedom (OEF)/Operation Iraqi Freedom (OIF) Case Management Screen

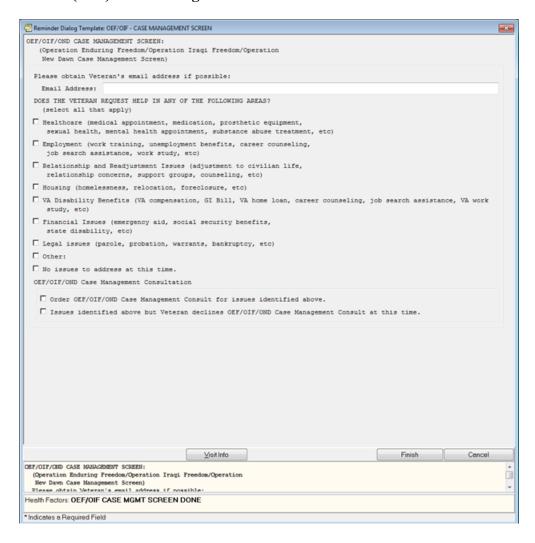


Figure A.2. Consult Order: Operation Enduring Freedom (OEF)/Operation Iraqi Freedom (OIF) Outpatient Case Management Program

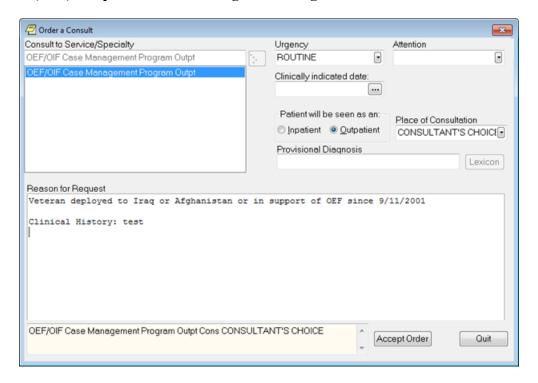


Figure A.3. Reminder Resolution: Operation Enduring Freedom (OEF)/Operation Iraqi Freedom (OIF) Post-Deployment Screen (image 1 of 3)

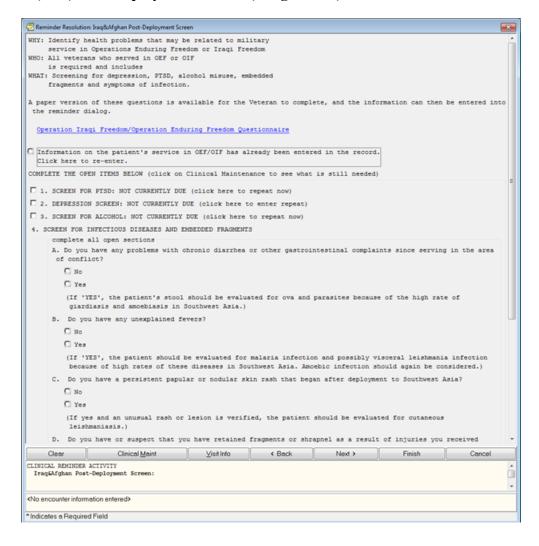


Figure A.4. Reminder Resolution: Operation Enduring Freedom (OEF)/Operation Iraqi Freedom (OIF) Post-Deployment Screen (image 2 of 3)

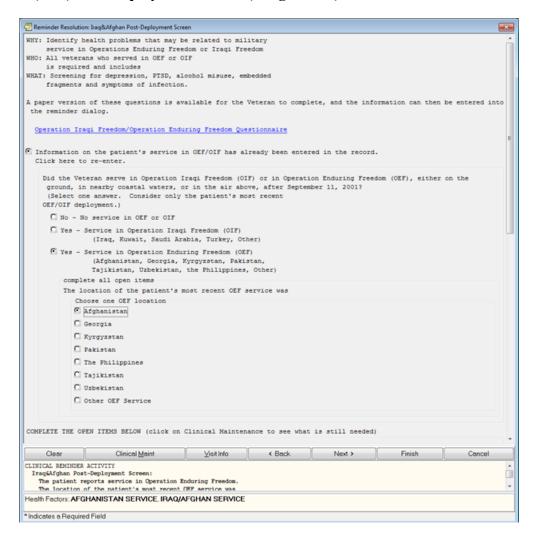


Figure A.5. Reminder Resolution: Operation Enduring Freedom (OEF)/Operation Iraqi Freedom (OIF) Post-Deployment Screen (image 3 of 3)

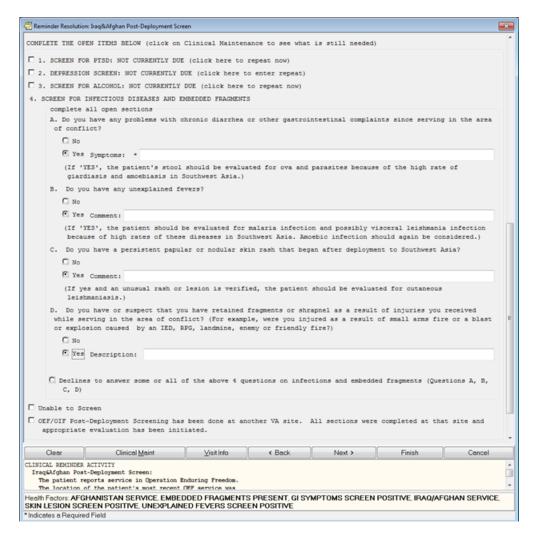


Figure A.6. Post-Deployment/Transition Consult Note (image 1 of 13)

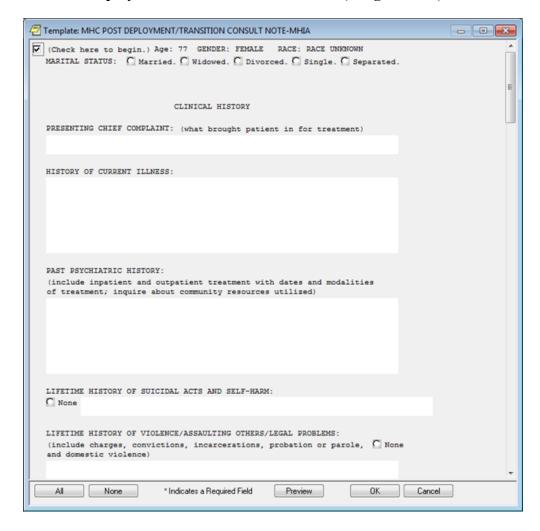


Figure A.7. Post-Deployment/Transition Consult Note (image 2 of 13)

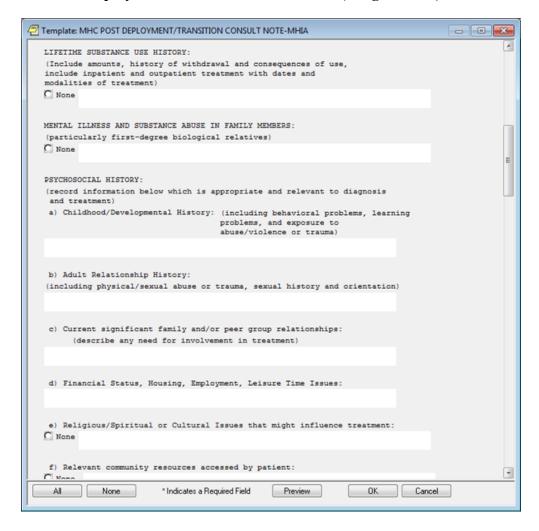


Figure A.8. Post-Deployment/Transition Consult Note (image 3 of 13)

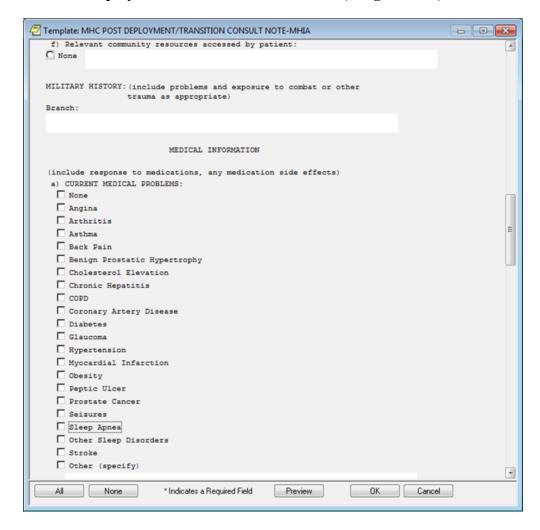


Figure A.9. Post-Deployment/Transition Consult Note (image 4 of 13)

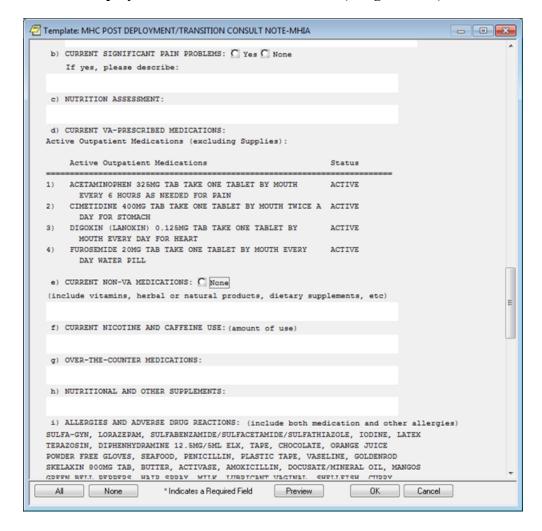


Figure A.10. Post-Deployment/Transition Consult Note (image 5 of 13)

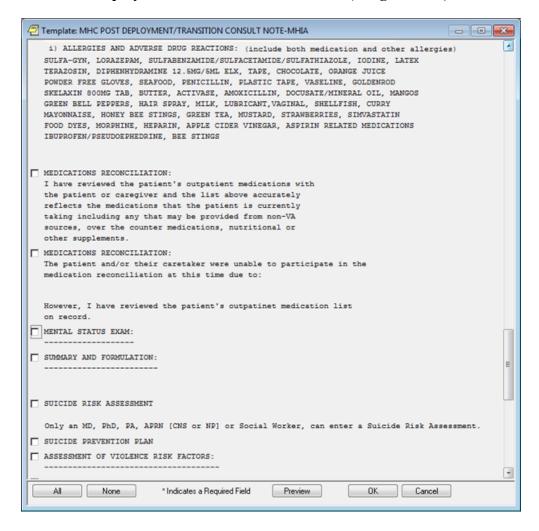


Figure A.11. Post-Deployment/Transition Consult Note (image 6 of 13)

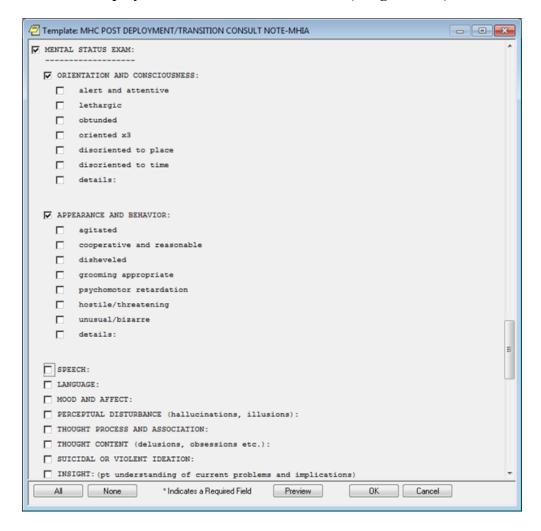


Figure A.12. Post-Deployment/Transition Consult Note (image 7 of 13)

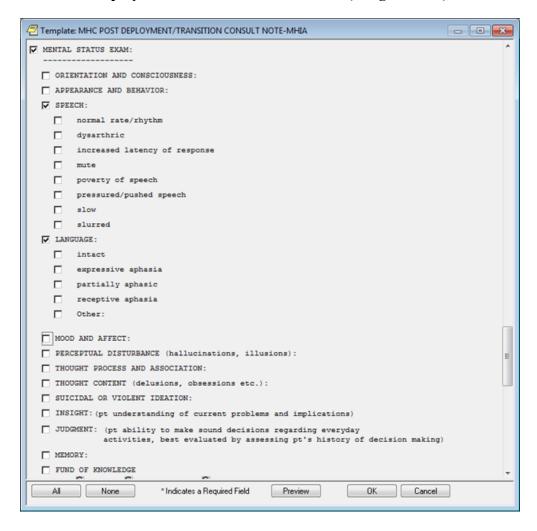


Figure A.13. Post-Deployment/Transition Consult Note (image 8 of 13)

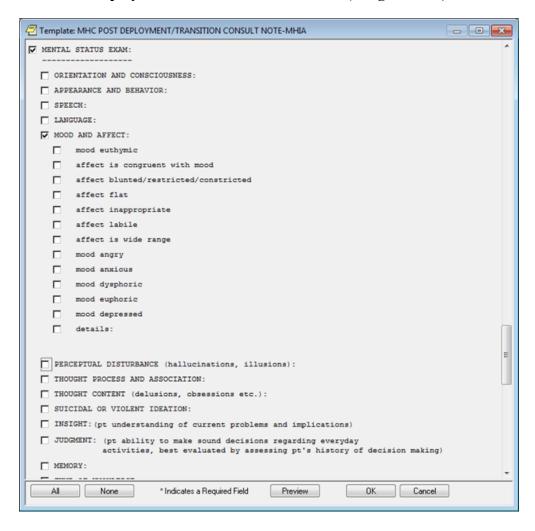


Figure A.14. Post-Deployment/Transition Consult Note (image 8 of 13)

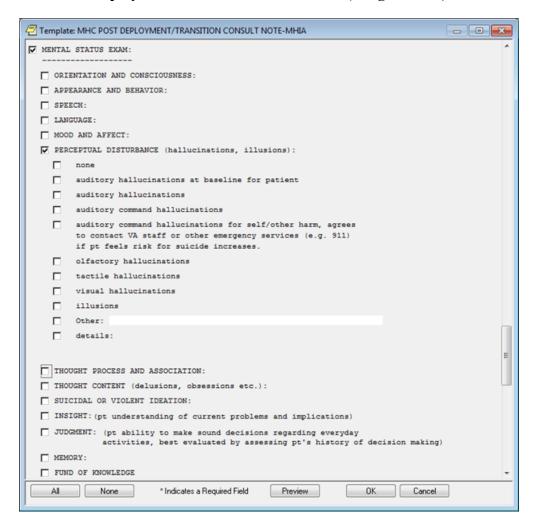


Figure A.15. Post-Deployment/Transition Consult Note (image 9 of 13)

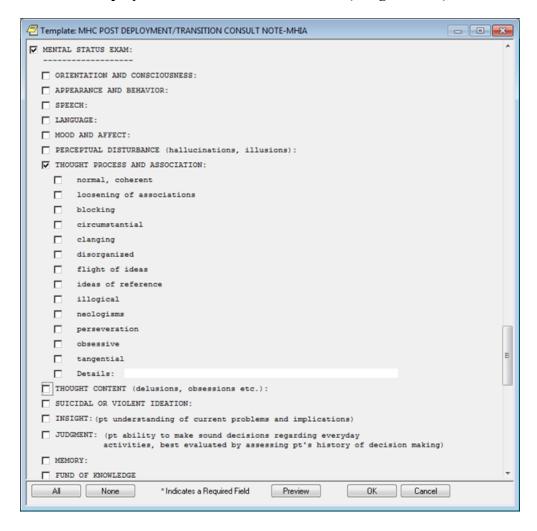


Figure A.16. Post-Deployment/Transition Consult Note (image 10 of 13)

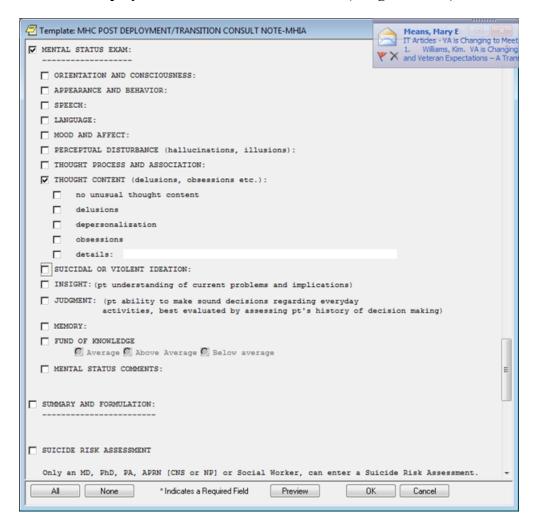


Figure A.17. Post-Deployment/Transition Consult Note (image 11 of 13)

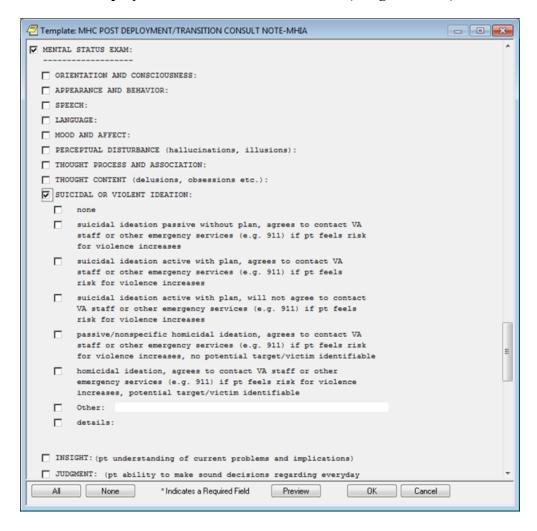


Figure A.18. Post-Deployment/Transition Consult Note (image 12 of 13)

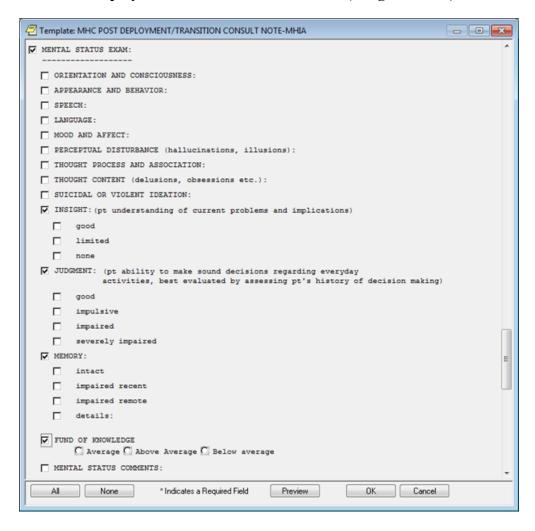
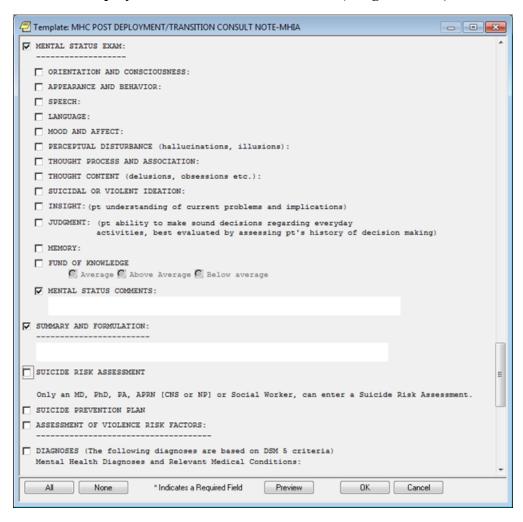
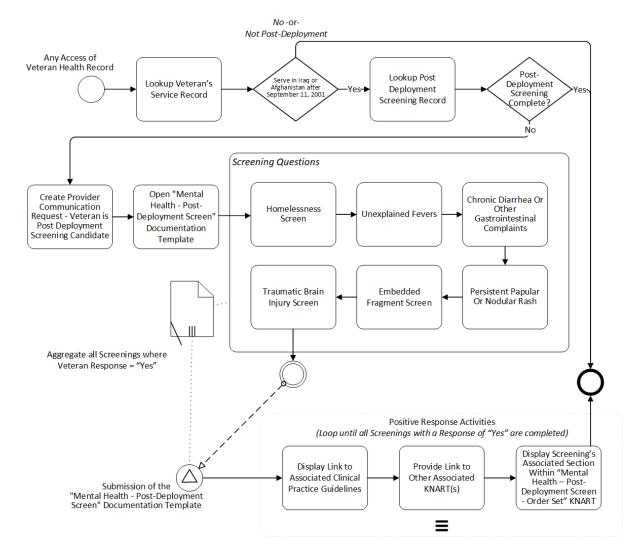


Figure A.19. Post-Deployment/Transition Consult Note (image 13 of 13)



Appendix B. Logic Diagrams

Figure B.1. Iraqi & Afghanistan Post-Deployment Event Condition Action (ECA) Rules



Appendix C. Basic Laboratory Panel Definition

- Blood Urea Nitrogen
- Calcium
- Chloride
- CO2 (Carbon Dioxide, Bicarbonate)
- Creatinine
- Glucose
- Potassium
- Sodium

Acronyms

CCWP	Clinical Content White Paper
CDS	Clinical Decision Support
CO2	Carbon Dioxide
DoD	Department of Defense
ECA	Event-Condition-Action
HL7	Health Level 7
KBS	Knowledge Based Systems
KNART	Knowledge Artifact
OEF	Operation Enduring Freedom
OIF	Operation Iraqi Freedom
OIIG	Office of Informatics and Information Governance
PCP	Primary Care Provider
PDH-CPG	Post-Deployment Health Clinical Practice Guideline
PTSD	Post-Traumatic Stress Disorder
SME	Subject Matter Expert
SMITREC	Serious Mental Illness Treatment Resource and Evaluation Center
ТО	Task Order
VA	Department of Veterans Affairs
VACO	VA Central Office
VAMC	VA Medical Center